

**Total No. of Pages : 1**

**M.Pharma(Pharmaceutical Chemistry) (2017 & Onwards) (Sem.-1)**

**Subject Code : MPC-103T**

**Max. Marks: 75**

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

- Q1. i) What are the various stages in drug discovery? Elaborate. (9)  
ii) What is the difference between an agonist and antagonist? Give examples. (6)
- Q2. i) What are the various causes of drug resistance? Discuss the various approaches towards combating drug resistance to antibiotics. (9)  
ii) Discuss briefly any two strategies of analog design. (6)
- Q3. i) Discuss the chemistry of angiotensin II antagonists employed in therapy. (9)  
ii) What are atypical antipsychotics? Discuss the chemistry of this class of drugs. (6)
- Q4. Write short notes on :  
i) Anticholinesterases in therapy (5)  
ii) Prodrug approach (5)  
iii) Prostaglandins and their importance (5)
- Q5. i) Discuss the various types of enzyme inhibitors in medicine. Give one example each (with mechanism) of covalently- and non-covalently binding enzyme inhibitors. (8)  
ii) Give a brief account of adrenergic agents in therapy. (7)
- Q6. i) Giving specific examples, explain the importance of chirality in drugs. (7)  
ii) What are the advantages and therapeutic importance of selective COX-2 inhibitors? (8)  
Give chemical structures of important therapeutic drugs from this category . (8)

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**